

# MISO Transmission Planning Update

Jan-21-2015



## **Overview**

1 MTEP14 Review

2 MTEP 15 Preview

3 Key Takeaways



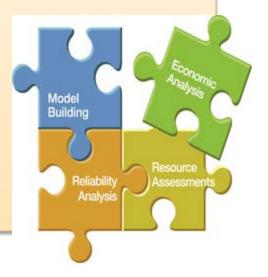
# MTEP 2014 Summary

The MISO Board approved MTEP14 on Dec 11, 2014

MTEP14 includes 369 newly approved projects
- totaling \$2.5 billion investment

First MISO transmission planning cycle to include the full participation of the MISO South Region

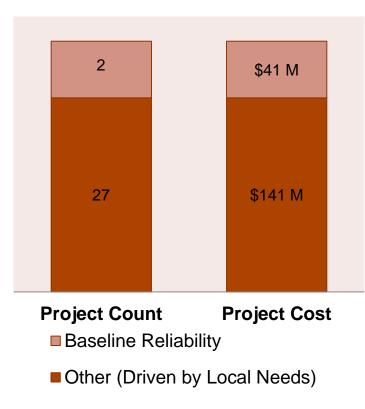
The South Region accounts for \$359.2 million in new projects

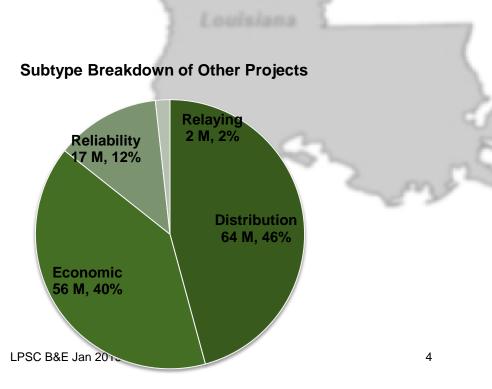




## **Approved Projects in Louisiana**

 In MTEP2014 – 29 new projects, \$182 Million were approved by MISO Board of Directors







# Louisiana MTEP14 Project Highlights

Rank by Cost *	ID	Project Description	Cost (\$M)	Туре	Impact
1	8284	Richardson - Iberville 230kV & Bagatelle – Sorrento 230kV cut-in to Panama 230kV & Coly 500/230kV transformer & Upgrade Wilton – Romeville 230kV	\$56	Economic	Reduce congestion
2	4794	Midtown 230 KV transformer (Entergy New Orleans)	\$27	Load Srv	Improve load serving capability in the industrial load growth areas
3	4625	Nelson transformer upgrade	\$21	Reliability	Improve avetem reliability
4	4605	Crown Zellerbach area substation	\$20	Reliability	Improve system reliability
5	4720	Michigan 230 kV substation	\$15	Load Srv	Improve load serving
6	4768	Boxwood 230 kV substation	\$11	Load Srv	capability in the industrial
7	4769	Schriever 230 kV substation	\$9	Load Srv	load growth areas

<sup>\*</sup> Note: This is the list of projects that have estimated cost of more than \$5 million. A full list of projects are included in the Appendix A

1a. Richardson - Iberville 230kV

5. Michigan 230kV Sub

3. Nelson Transformer Upgrade

1c. Bagatelle - Sorrento Cut-into Panama

4. Crown Zellerbach Sub

1d. Coly Autotransformer

6. Boxwood 230kV Sub

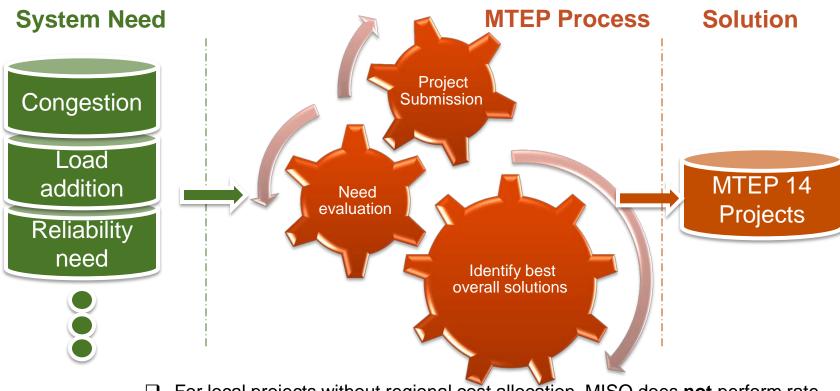
2. Midtown 230kV Sub

1b. Wilton - Romeville 230kV

7. Schriever 230kV Sub



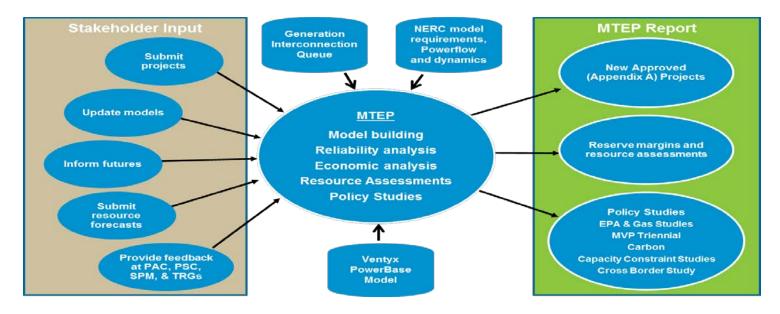
## Impact and Indication



- ☐ For local projects without regional cost allocation, MISO does **not** perform rate projections
  - ☐ All the MTEP 14 approved projects in LA are "Local" projects
  - No regional cost allocation
- ☐ For cost shared projects, MISO does perform rate projection



## **Stakeholder Participation**



- Extensive stakeholder discussion
- Stakeholder input helped shape the study results, investment, and outcomes
- Balance between data transparency and customer confidentiality



## **MTEP Stakeholder Forums**

#### **MISO Board of Directors**



- · Monitors and evaluates MISO on the company's oversight and enhancement of the transmission system
- Makes recommendations to the MISO Board of Directors regarding the MISO Transmission Expansion Plan

#### **Planning Advisory Committee**

- Oversee and advise MISO on policy matters, integration and fairness of MISO's expansion plan and associated cost allocations
- · Review report, offer formal feedback to MISO's Board of Directors, including motion regarding approval.

#### **Planning Subcommittee**

- Review technical guidance on study methodologies, general study updates
- Meets once every other month

#### **Subregional Planning Meetings**

- Develop detailed technical presentation of studied plans
- · Meets September, December, March and June
- · Also includes a number of locally focused Technical Study Task Force Meetings, as needed



# After Board Approval...





MISO Board of Director approval establishes projects expected to move forward to implementation as a part of the regional plan, subject to all necessary State and Local regulatory approval processes.

- Approved Appendix A Projects approved by MISO BOD
- Target Appendix A Under review in the current MTEP cycle
- Appendix B Uncommitted Projects for TPL Compliance



## **MTEP 15**

### **Initial Proposed Projects**

- CLECO submitted 4 proposed projects into MTEP15
- Entergy Louisiana submitted 35 proposed projects into MTEP database
  - ELL, ENOI, and EGSL proposed 16 projects moving to Appendix A in MTEP15

#### Continue stakeholder involvement

- MISO planning forums
- Increased participation
- Wider acceptance of MTEP process across MISO South footprint;
- Continue to work on stakeholder education and involvement in the planning process
  - Workshops
  - Various planning forums



## **Lake Charles Transmission Projects**

Entergy and MISO continue to plan to meet emerging new load additions and enhance reliability

Entergy has submitted a proposed project in the Lake Charles area to meet a new load addition request for service and enhance reliability in this area

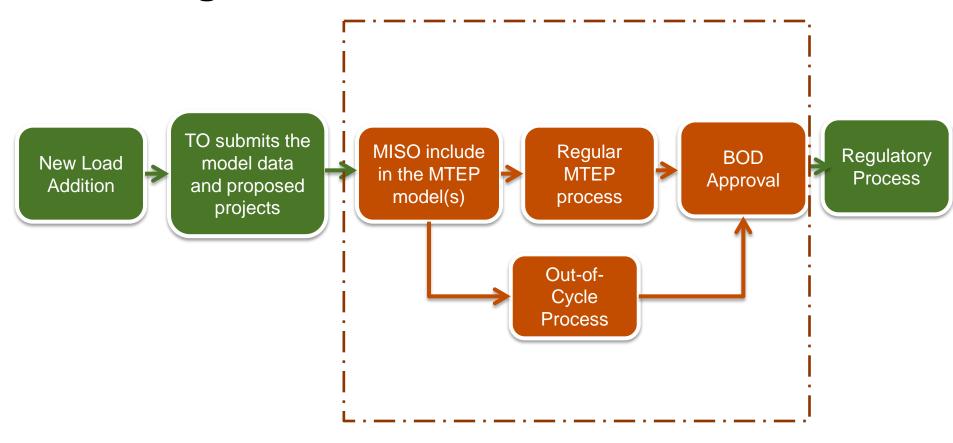
This projects is expected to reduce VLR unit commitments in the area

MISO is evaluating this project on an expedited basis to ensure that new load commitments will be met and the project is coordinated with other planning efforts

- ☐ The required in-service date June 1, 2018 ☐ Estimated cost \$187 Million
- Sulphur Lane 500kV Switching Station
- 500 kV line Sulphur Lane new Bulk Station (7 mi)
- 500/230 kV Bulk Station
  - 1200MVA, 500/230 kV autotransformer
- 230 kV line Bulk Station Carlyss (2 mi)
- Reconfigure the Carlyss substation
- 230 kV line Carlyss Graywood (12 mi)



## Planning Process to Address Load Growth



# **Key Takeaways**

In LA, 29 new projects, \$182M, approved by MISO BOD in Dec 2014

Extensive communication and collaboration

Transmission & distribution investment enable load growth, increase reliability and reduce congestion

Continue to work with stakeholders to maximize value for rate payers

## **Appendix A - MTEP14 Approved Projects (Louisiana)**

	Allocation Type per			Expected In-Service
PrjID Project Name	FF			Date
Richardson to Iberville 230 kV line; Add second Coly 500/230 kV autotransformer; Bagatelle - Sorrento cut-in to Panama;				
8284 Upgrade Wilton - Romeville 230 kV line	Other	Economic	\$56,278,053	12/1/2017
4719PPG to Rosebluff 230 kV Line: Upgrade line to increase capacity	Other	Distribution	\$3,000,000	7/1/2015
4794Midtown: Add 230 kV distribution transformers	Other	Distribution	\$27,300,000	12/1/2014
4761EGSL SPOF Projects: Modify relaying at Willow Glen 500 kV	Other	Relaying		6/1/2015
4762EGSL SPOF Projects: Modify relaying at Fancy Point 500kV	Other	Relaying	\$250,000	6/1/2015
4763EGSL Underrated Breaker Project: Jaguar 69 kV 20940-CO	Other	Reliability	\$1,480,000	
4764EGSL Underrated Breaker Project: Jaguar 69 kV 20905-CO	Other	Reliability		12/1/2016
4765 EGSL Underrated Breaker Project: Blount 69 kV 14105-TC		Reliability		12/1/2016
4766EGSL Underrated Breaker Project: Coly 230 kV 21825-C		Reliability		12/1/2016
4767EGSL Underrated Breaker Project: Coly 230 kV 21830-C	Other	Reliability		12/1/2016
4625 Nelson: Upgrade 500-230 kV single phase transformer bank with 1200 MVA transformer bank	BaseRel		\$21,000,000	
4605 Crown Zellerbach Area: Construct new 230-138 kV substation on the Fancy Point to Waterloo 230 kV line	BaseRel		\$20,200,000	
4770ELL Underrated Breaker Project: Waterford 230 kV S7145-CO		Reliability	\$1,082,000	
4771 ELL Underrated Breaker Project: Waterford 230 kV S7154-CO	Other	Reliability		12/1/2016
4772 ELL Underrated Breaker Project: Ninemile 115 kV S6342-CO	Other	Reliability		12/1/2016
4773ELL SPOF Projects: Modify relaying at Ninemile 230 kV	Other	Relaying	\$2,003,500	
4774ELL SPOF Projects: Modify relaying at Southport 230 kV	Other	Relaying	\$0	
4775ELL SPOF Projects: Modify relaying at Labarre 230 kV		Relaying	\$0	
4776ELL SPOF Projects: Modify relaying at Harahan 230 kV		Relaying	\$0	
4777 ELL SPOF Projects: Modify relaying at Paris 230 kV	Other	Relaying	\$0	
4778ENOI SPOF Projects: Modify relaying at Market Street 230 kV		Relaying		6/1/2015
4783 Haute 115 kV Substation: Construct new substation and cut into existing Lutcher to Belle Point 115 kV line			\$2,553,000	
4720 Michigan 230 kV substation: Construct new Michigan 230 kV substation and cut in to the Nelson to Verdine 230 kV line	Other		\$14,700,000	
4768Boxwood 230 kV Substation: Cut-in new substation on the Willow Glen to Brittany 230 kV line			\$10,943,000	
4795ENOI Underrated Breaker Project: Claiborne 115 kV N0143-ICBO	Other	Reliability		12/1/2014
4796ENOI Underrated Breaker Project: Claiborn 115 kV N0123-ICBO		Reliability		12/1/2014
7841 Reese 115 kV: New Substation		Distribution		
4769 Schriever: Construct new 230 kV substation			\$9,391,000	
4784 Derrick 230 kV Substation: Construct new 230 kV substation and cut into Iberville to Chenango 230 kV line	Other	Distribution	\$7,650 <sub>1</sub> 000	5/16/2014

**Appendix B - Lake Charles Transmission** 

